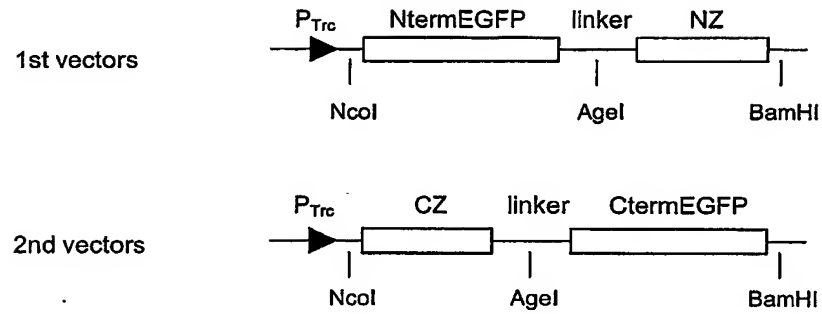


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Fig. 1

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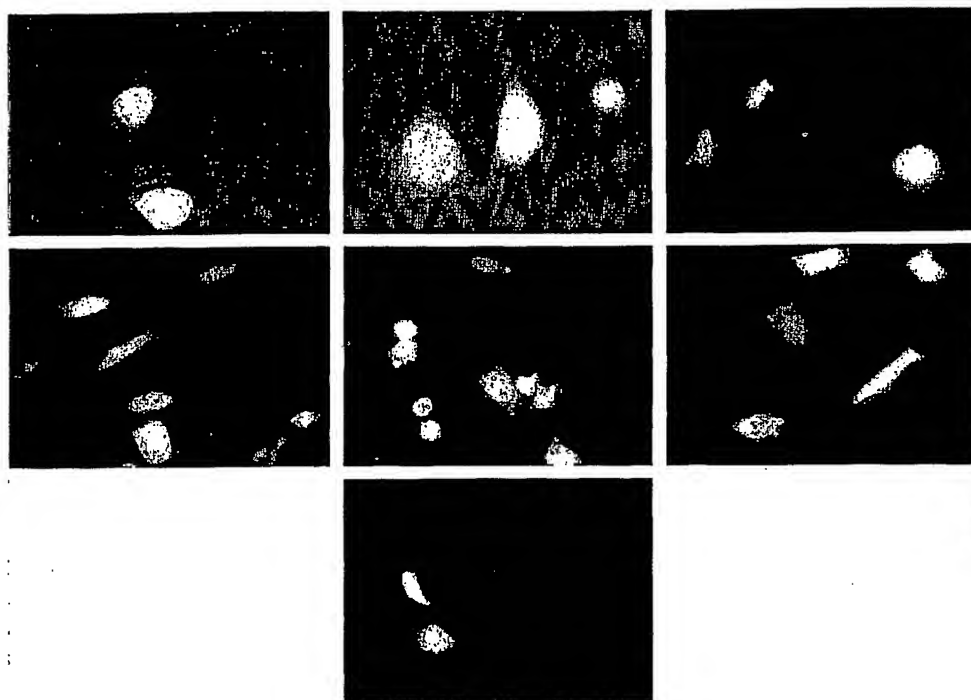
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Fig. 2

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Fig. 3

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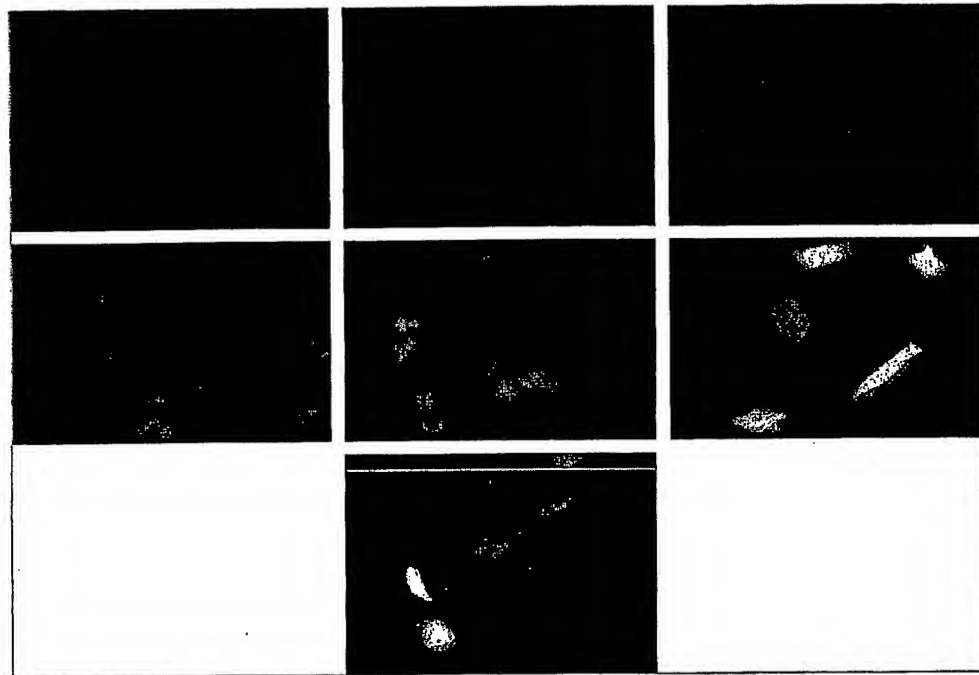


Fig. 4

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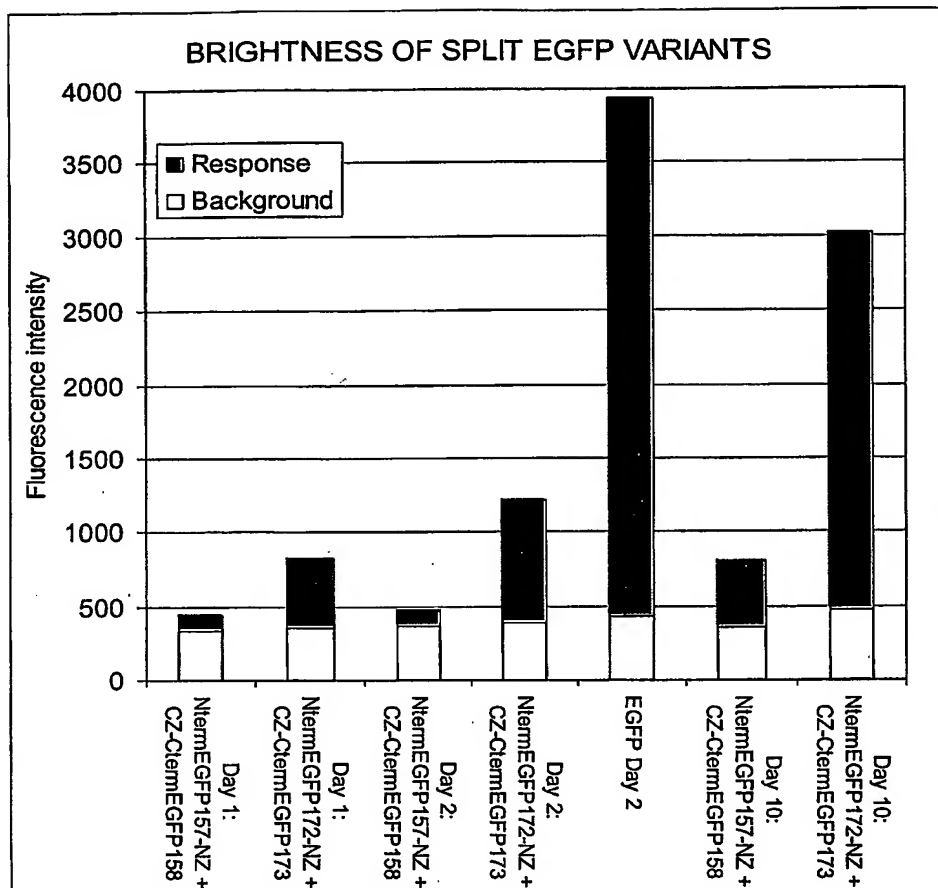


Fig. 5

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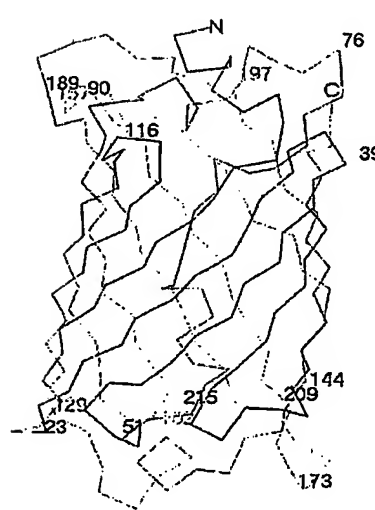
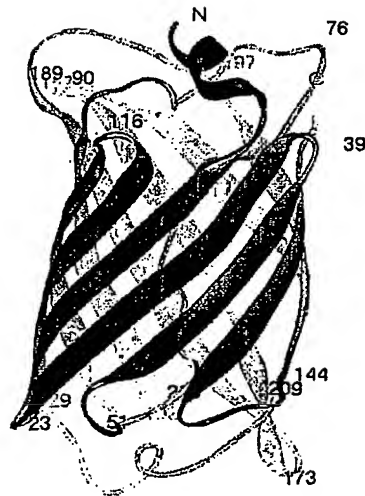
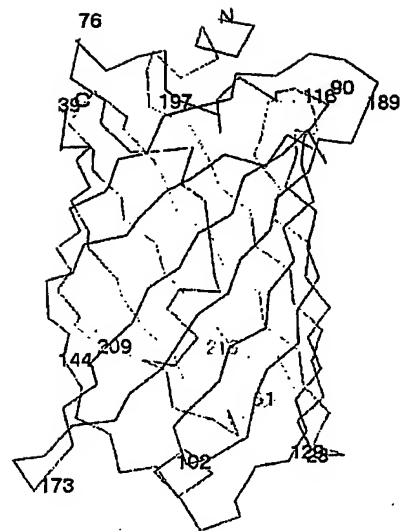
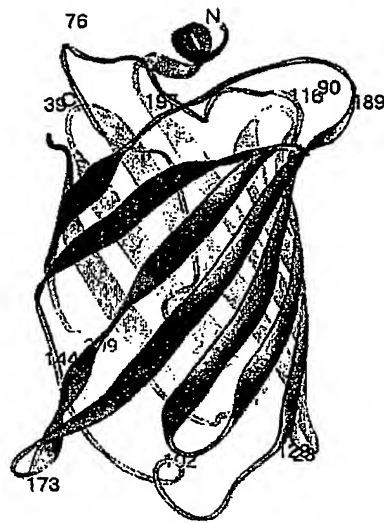


Fig. 6 6/23

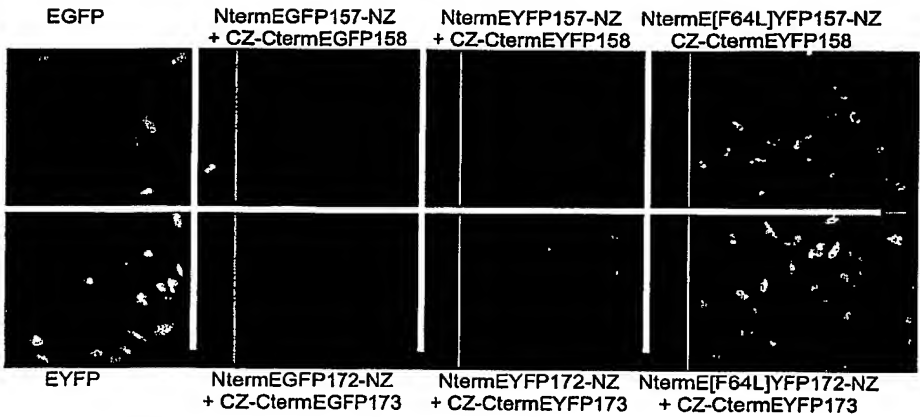
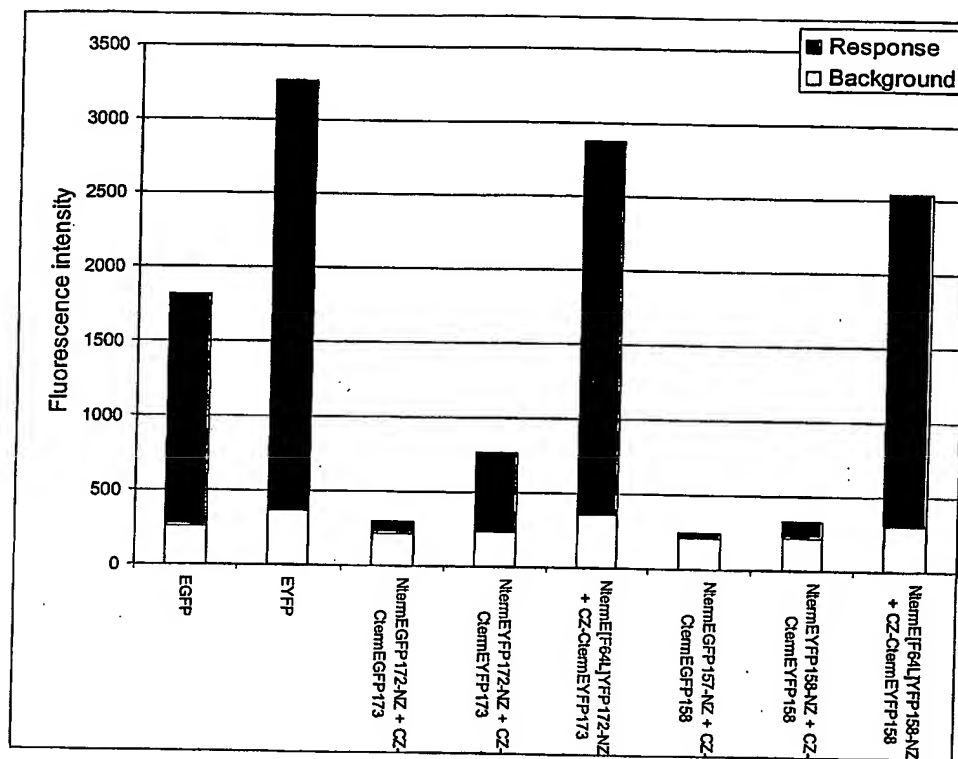


Fig. 7

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Fig. 8

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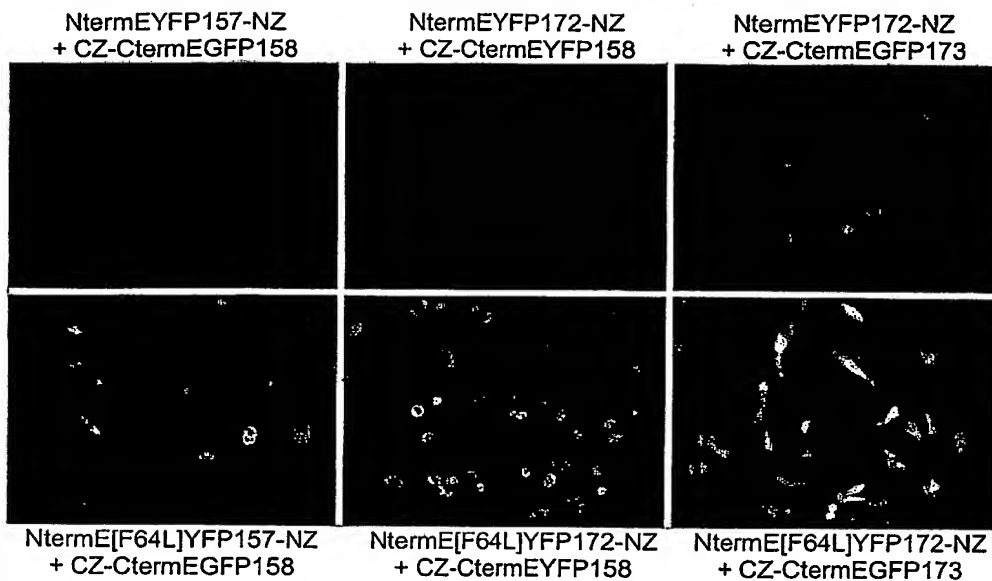
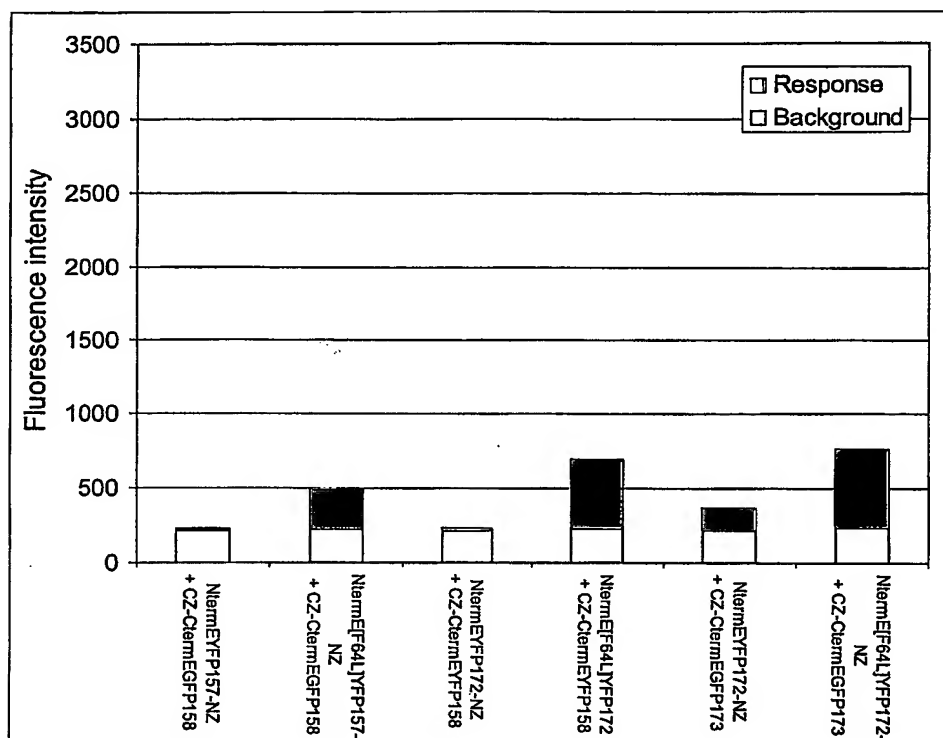


Fig. 9

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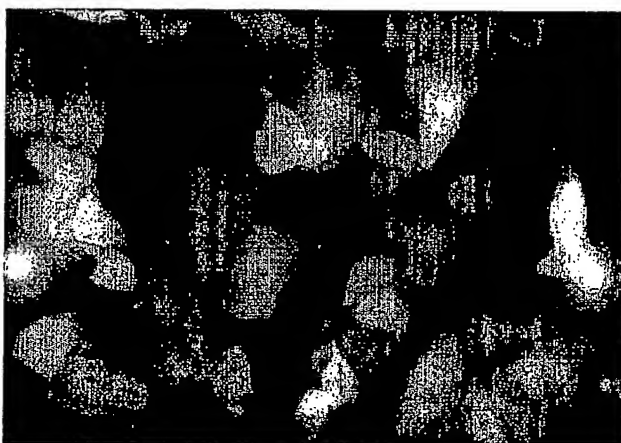
Fig. 10

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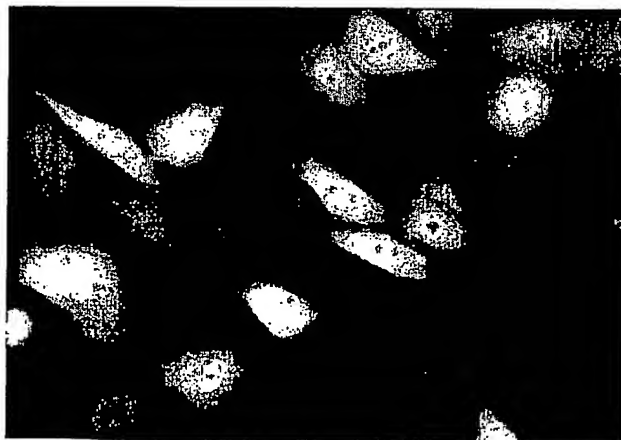
(a)



(b)



(c)

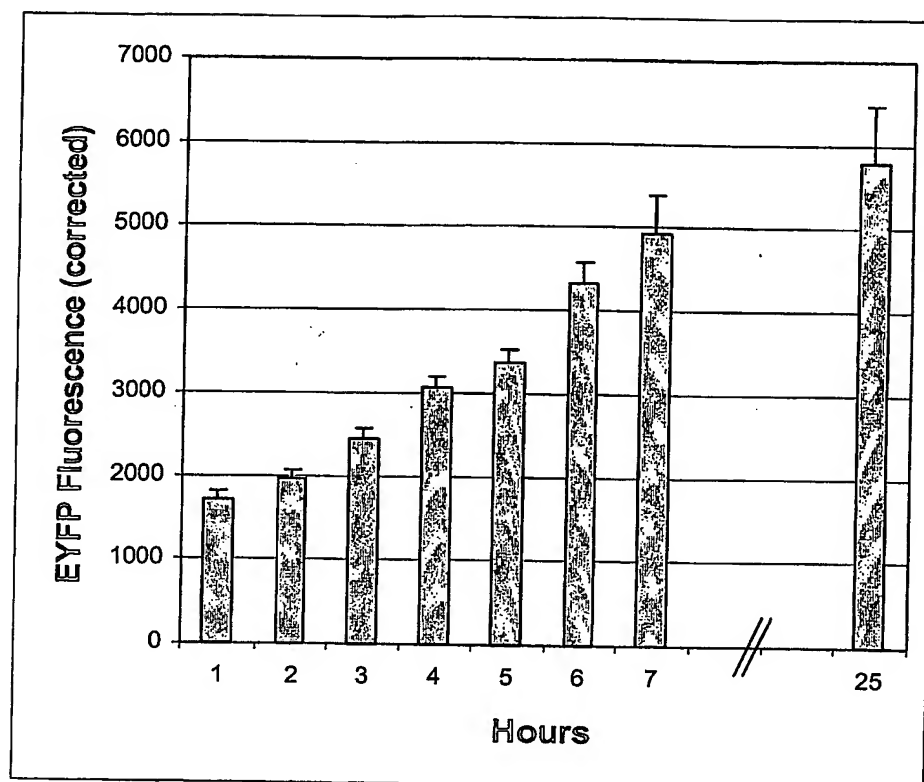


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Fig. 11

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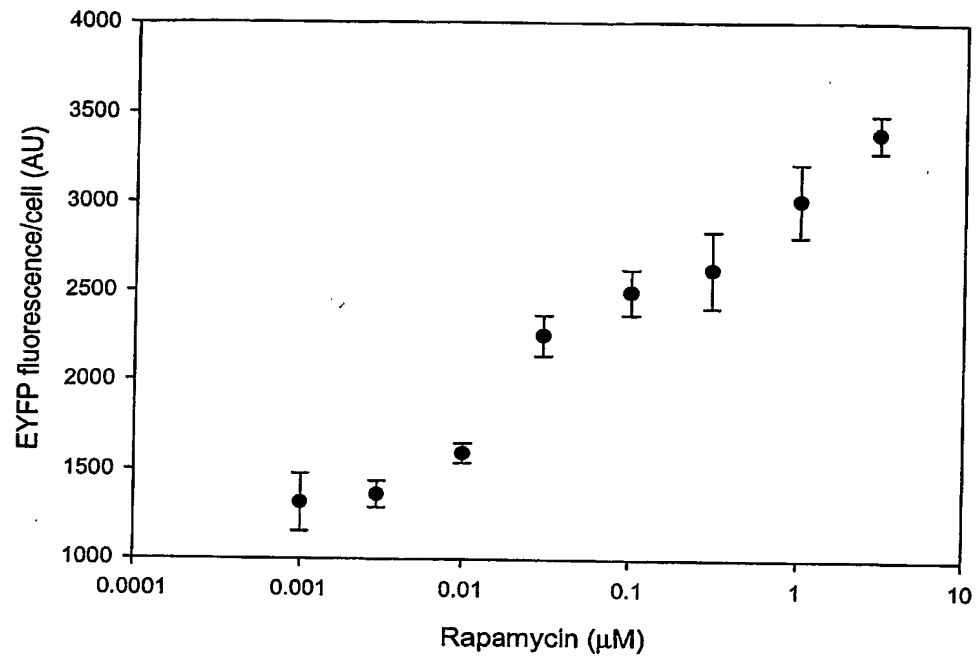


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Fig. 12

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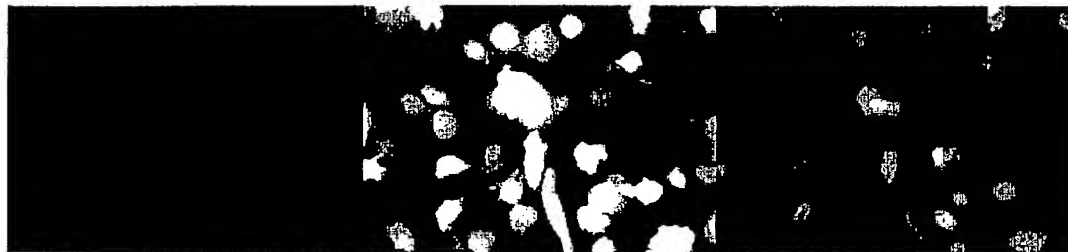


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Fig. 13a

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(a)

(ii)

(iii)

Fig. 13b



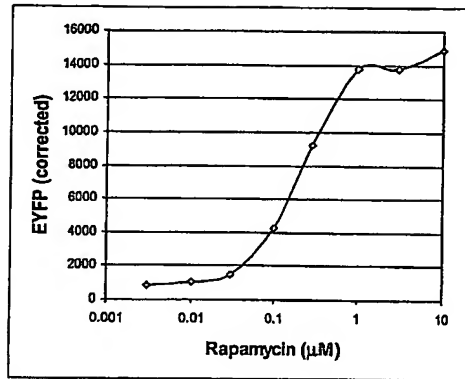
(i)

(ii)

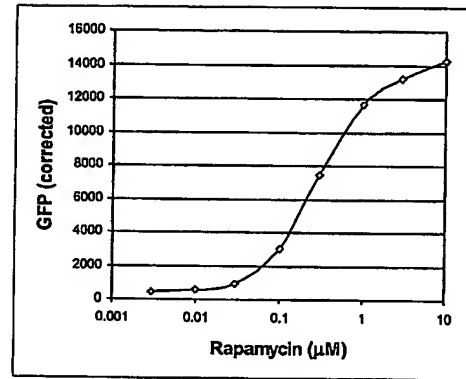
(iii)

Fig. 14a

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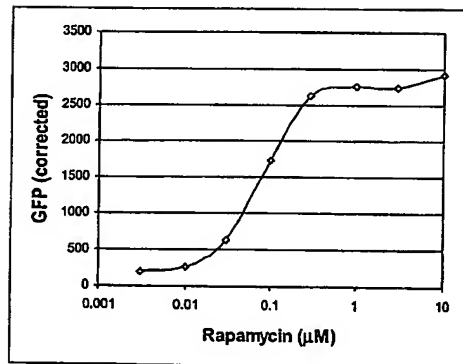


(i)

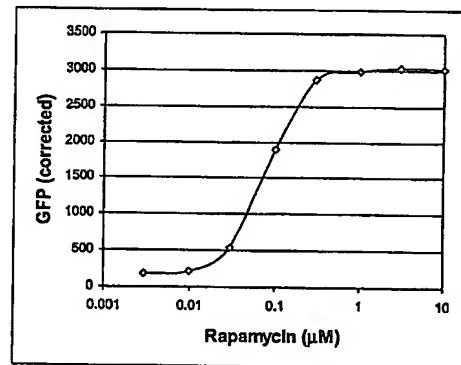


(ii)

Fig. 14b



(i)



(ii)

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Fig. 15a

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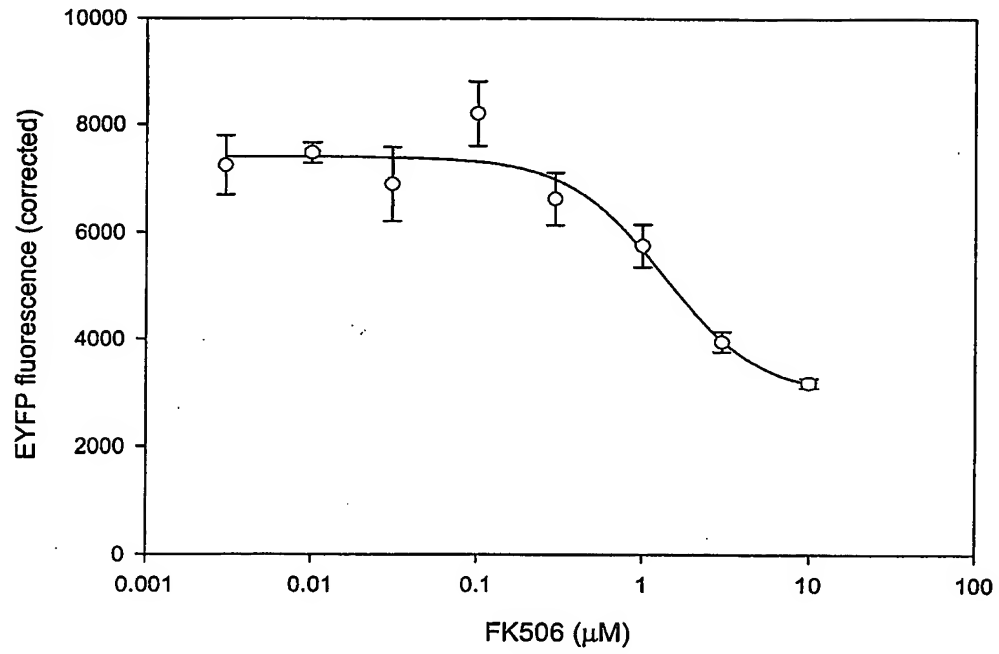


Fig. 15b

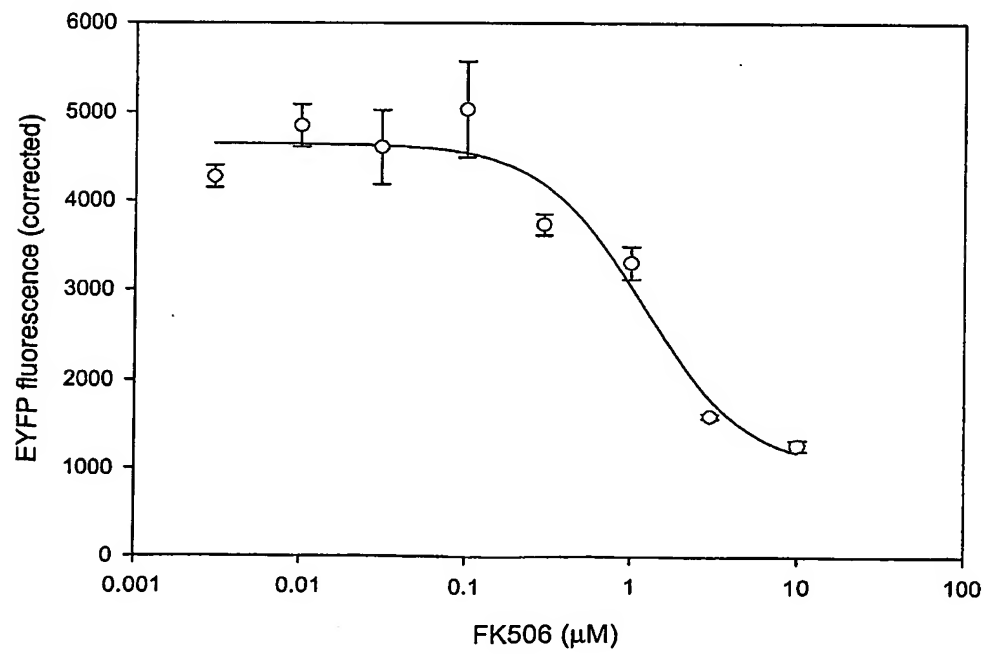


Fig. 16

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AY015996 rmGFP -----MSKQILKNTCLQEVMSYKVNLEGV 25
AF372525 rrGFP -----MD-----LAKLGLKEVMPKINLEGLV 22
AF168419 dsRed -----MRSSKNVKEFMRFKVRMEGTV 22
AF322222 asCP562 -----MASFLKKTMPFKTTIEGTV 19
AF168422 asCP562 -----MAQSKHGLTKEMTMKYRMEGCV 22
AF246709 asFP595 -----MASFLKKTMPFKTTIEGTV 19
AF322221 asFP499 -----MYPSTIKETMRVQLSMEGSV 19
AF384683 mcGFP -----MSVIKPIKEIKLRMQGVV 18
AF401282 mfGFP -----MSVIKPDMKIKLRMEGAV 18
AF168424 csFP484 MKCKFVFCLSFLVLAITNANIFLRNEADLEEKTLRIKALTMTGMVVKPDMDIKLRMEGAV 60
AF168420 dsFP483 -----MSCSKSVIKEEMLIDLHLEGT 22
AY015995 spGFP -----MNRNVLKNTGLKEIMSAKASVEGIV 25
AF168423 zsFP538 -----MAHSHKHLKEEMTMKYHMEGCV 22
AF168421 amFP486 -----MALSNKFIQDMDKMTYHMDGCV 22
AY013824 amGFPxm -----MSKGEELFTGIVPVLIELDGDV 22

P42212 avGFP NGHKSFSVSGEGEGDATYKGL--TLKFICTTG-KLPVPWPTLVTTFSYGVQCFSRYPDHMK 79
AY015996 rmGFP NNHVFTMEGCGKGNILFGNQ--LVQIRVTKGAPLPFAFDIVSPAFQYGNRTFTKYPNDIS 83
AF372525 rrGFP GDHAFSMEGEGEGNILEGTQ--EVKISVTKGAPLPFAFDIVSVAFSYGNRAYTGYPEEIS 80
AF168419 dsRED NGHEFEIEGEGEGRPYEGHN--TVKLKVTGKGPLPFAWDILSPQFQYGSKYVVKHPADIP 80
AF322222 asCP562 NGHYPKCTGKGEKNPFEGTQ--EMKIEVIEGGPLPFAFHILSTSCMYGSKTTFIKYVSGIP 77
AF168422 asCP562 DGHKFVITGEGIGYPFKGKQ--AINLCVVEGGPLPFAEDILSAAFNNGRNVFTTEYQDIV 80
AF246709 asFP595 NGHYPKCTGKGEKNPFEGTQ--EMKIEVIEGGPLPFAFHILSTSCMYGSKTTFIKYVSGIP 77
AF322221 asFP499 NYHAFKCTGKGEKPYEGTQ--SLNITITTEGGPLPFAFDILSHAFQYGIKVFAPKYPEIP 77
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AF401282 mfGFP NGHKFVIEGDKGKPEGTQ--SMDLTVKEGAPLPFAFDILTTFVFDYGNRVFAKYPQDIP 76
AF168424 csFP484 NGHAFVIEGEGEGKPYDGT--TLNLEVKEGAPLPFSYDILSNAFYGNRALTTPYDDIA 118
AF168420 dsFP483 NGHYPKCTGKGEKNPFEGTQ--TINLTVKEGAPLPFAFDILSFAFYGNRVFTKYPDDIP 76
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AF168423 zsFP538 NGHKFVITGEGIGYPFKGKQ--TINLCVIEGGPLPFAFDILSNAFYGNRALTTPYDDIA 118
AF168421 amFP486 NGHYPKCTGKGEKNPFEGTQ--TINLTVKEGAPLPFAFDILTTFVFDYGNRVFAKYPQDIP 76
AY013824 amGFPxm NGHKSFSVSGEGEGDATYKGL--TLKFICTTG-KLPVPWPTLVTTFSYGVQCFSRYPDHMK 79

P42212 avGFP QHDFFSKAMPEGYVQERTIFFKDDGNKYKTRAEV--KFEG--DTLVNRIELKGIDFKEDG 134
AY015996 rmGFP --DYFIQSFPAGFMYERTLRYEDGGLVEIRSDI--NLIE--DKFVYRVYKGSNFPDDG 136
AF372525 rrGFP --DYFLQSFPEGFTYERNIRYQDGGTAIVKSDI--SLED--GKFIYVNDFAKDLRRMG 133
AF168419 dsRED --DYKLSFPPEGFKWERNVNFEDGGVVTVTQDS--SLQD--GCFIYKVKFIGNVFPDSDG 133
AF322222 asCP562 --DYFKQSFPEGFTWERTTYYEDGGFLTAHQDT--SLDG--DCLVYKVKILGNFPADG 130
AF168422 asCP562 --DYFKNSCPAGYTWDRSLFEDGAVCI CNADITVSVEEN--CMYHESKFIYGNVFPDSDG 133
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AF168423 zsFP538 --DYFKNSCPAGYTWGRSLFEDGAVCI CNADITVSVEEN--CMYHESKFIYGNVFPDSDG 133
AF168421 amFP486 --DYFKQAFPDGMSYERTTYYEDGGVATASWEI--SLKGN--CPEHKSFTFHGNVFPDSDG 135
AY013824 amGFPxm MNDFFKSAMPEGYVQERTIFFKDDGNKYKTRAEV--KFEG--DTLVNRIELKGIDFKEDG 134

P42212 avGFP NILGHKLEYNNSHNHYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQON--TPIGDGP 192
AY015996 rmGFP PVM-QKTILGIEPSFEAMYMN--NGVLVGEVILVYKLSNGKYSCHMKTLL--MKSXGVV 190
AF372525 rrGFP PVM-QQDIVQMOPSYESMYTN--VTSVIGECIIAPFLQTKGHFTYHMTV--YKSKKP 187
AF168419 dsRED PVM-QKKTGMWEASTERLYPR--DGVKLGKGIHKLKLDGGHYLVBFKSI--YMAKKP 186
AF322222 asCP562 P--RDAGQS--137
AF168422 asCP562 PVM-QKMTDNWEPSCKEIIPVVKQGLKGDVSMYLLKLDGGRLRCQFDTV--YKAKSV 191
AF246709 asFP595 PVM-QNKAGREWEPATEIYEV--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA 186
AF322221 asFP499 PVM-QKKTGWEPTSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT--YKSKKE 183
AF384683 mcGFP PVM-QKKTGWEPTSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT--YKSKKE 183
AF401282 mfGFP PVM-QKKTGWEPTSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT--YKSKKE 183
AF168424 csFP484 PVM-QKKTGWEPTSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT--YKSKKE 183
AF168420 dsFP483 PVM-QKKTGWEPTSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT--YKSKKE 183
AY015995 spGFP PVM-QKKTGWEPTSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT--YKSKKE 183
AF168423 zsFP538 PVM-QKKTGWEPTSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT--YKSKKE 183
AF168421 amFP486 PVM-QKKTGWEPTSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT--YKSKKE 183
AY013824 amGFPxm NILGHKLEYNNSHNHYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQON--TPIGDGP 192

```


Fig. 16 cont.

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AY015996	rmGFP	KEFPSYHFIQHRLEKTYV-EDGG-FVEQHETAIAQMTSIGKPLGSLHEWV	238
AF372525	rrGFP	ETMPLYHFIQHRLVKTNV-DTASGYVVQHETAIAAHSTIKKIEGSLP---	233
AF168419	dsRED	VQLPGYVVVDSKLDITSH-NEDYTIVEQYERTEGRHHLFL-----	225
AF322222	asCP562	RKMG-----ASHRDTL-----	148
AF168422	asCP562	RKMPDWHFIQHKLTREDRSDAKNQKWHLTEHAIASGSALP-----	231
AF246709	asFP595	LKMPGFHFDHRIEIMEE-VEKGKCYKQYEAAGRYCDAAPSKLGHN---	232
AF322221	asFP499	VKLPELHFHHLRMEKLNH-SDDWKTVEQHESSVVASYS-QVPSKLGHN---	228
AF384683	mcGFP	VQLPDYHFVDHRIEILSH-DNDYNTVKLSEDAEARYSMLPSQAK-----	225
AF401282	mfGFP	VQLPDYHFVDHRIEILSH-DKDYNKVKLYEHAEA-HSGLPRQAK-----	227
AF168424	csFP484	VKLPDYHFVDHRIEILNH-DKDYNKVTLYENAVARYSLLPSQA-----	266
AF168420	dsFP483	LKMPGYHYVDTKLVIWNN-DKEFMKVEEHEIAVARHHPFYEPPKDK---	232
AY015995	spGFP	KEFPYHFIHHRLEKTYV-BEGS-FVEQHETAIAQLTTIGKPLGSLHEWV	238
AF168423	zsFP538	SKMPEWHFIQHKLLREDRSDAKNQKWLTEHAIAFPSALA-----	231
AF168421	amFP486	VTMPPNHVVEHRIARTDLDKGGNS-VQLTEHAVAHTSVVPF-----	229
AY013824	amGFPXM	VLIPINHYLSTQTAISKDRNETRDHMFLEFFSACGHTHGMDLYK----	238

Fig. 17

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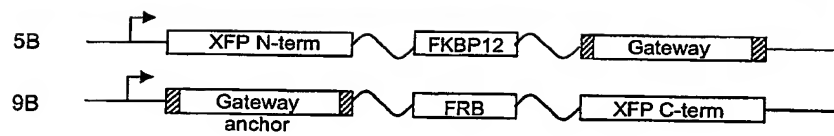
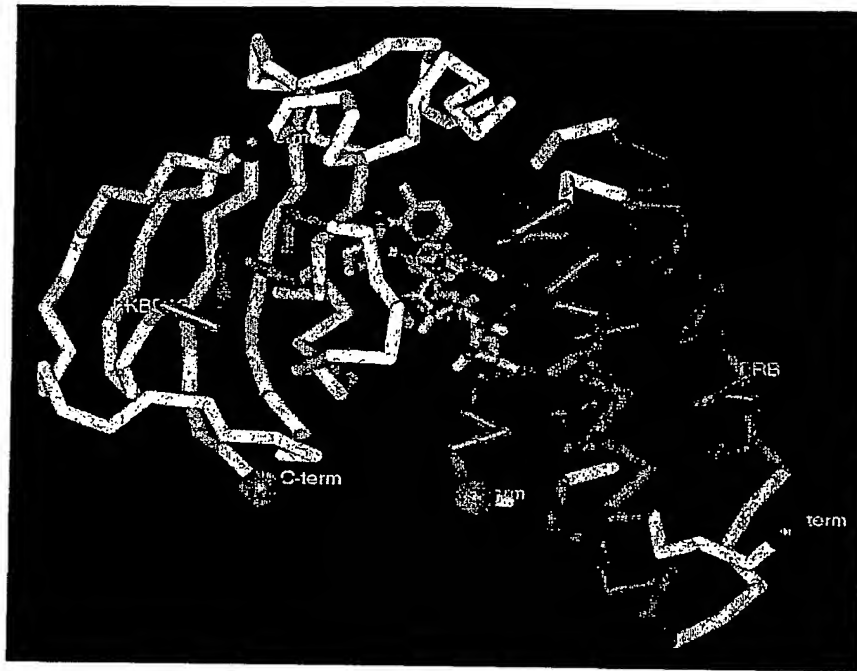
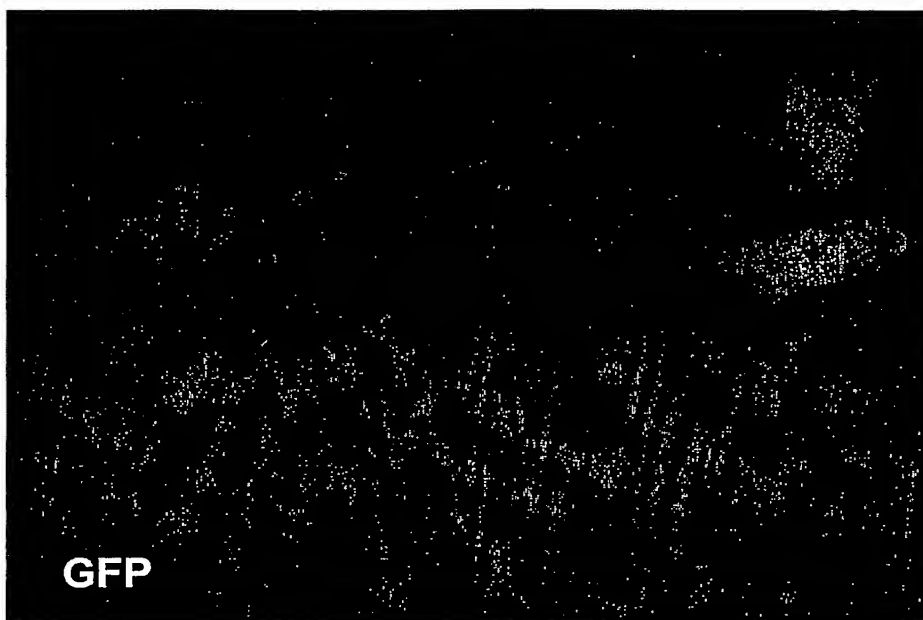


Fig. 18

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(A)



(B)

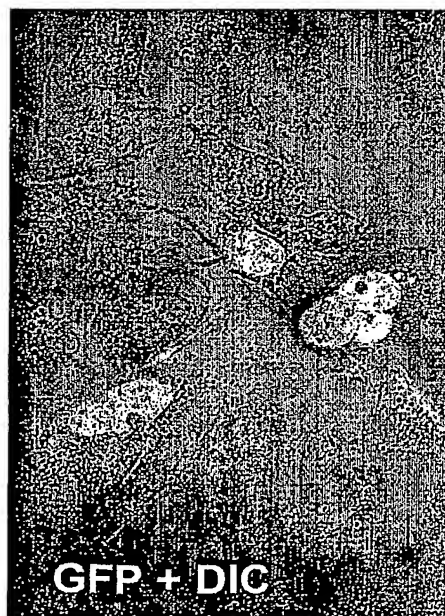
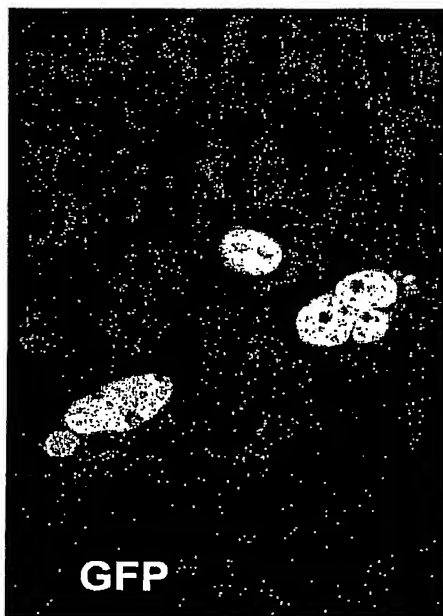
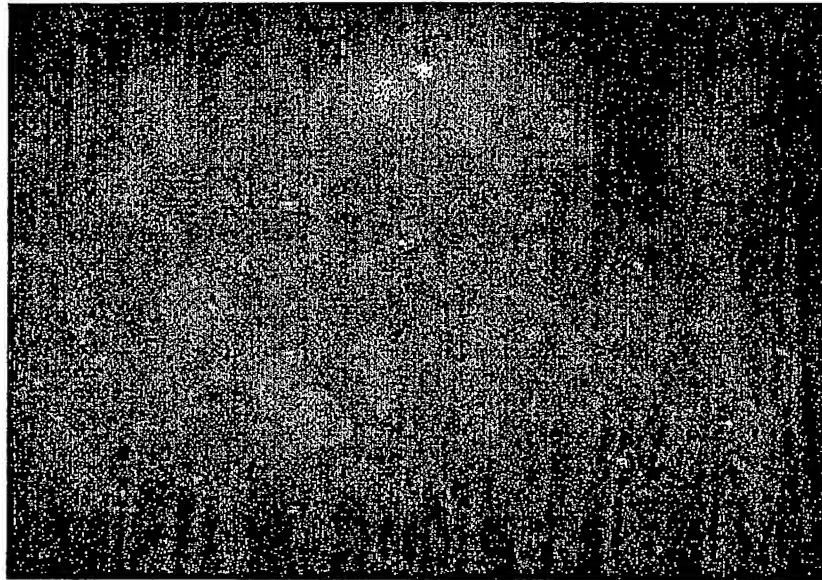


Fig. 19

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(A)



(B)



Fig. 20

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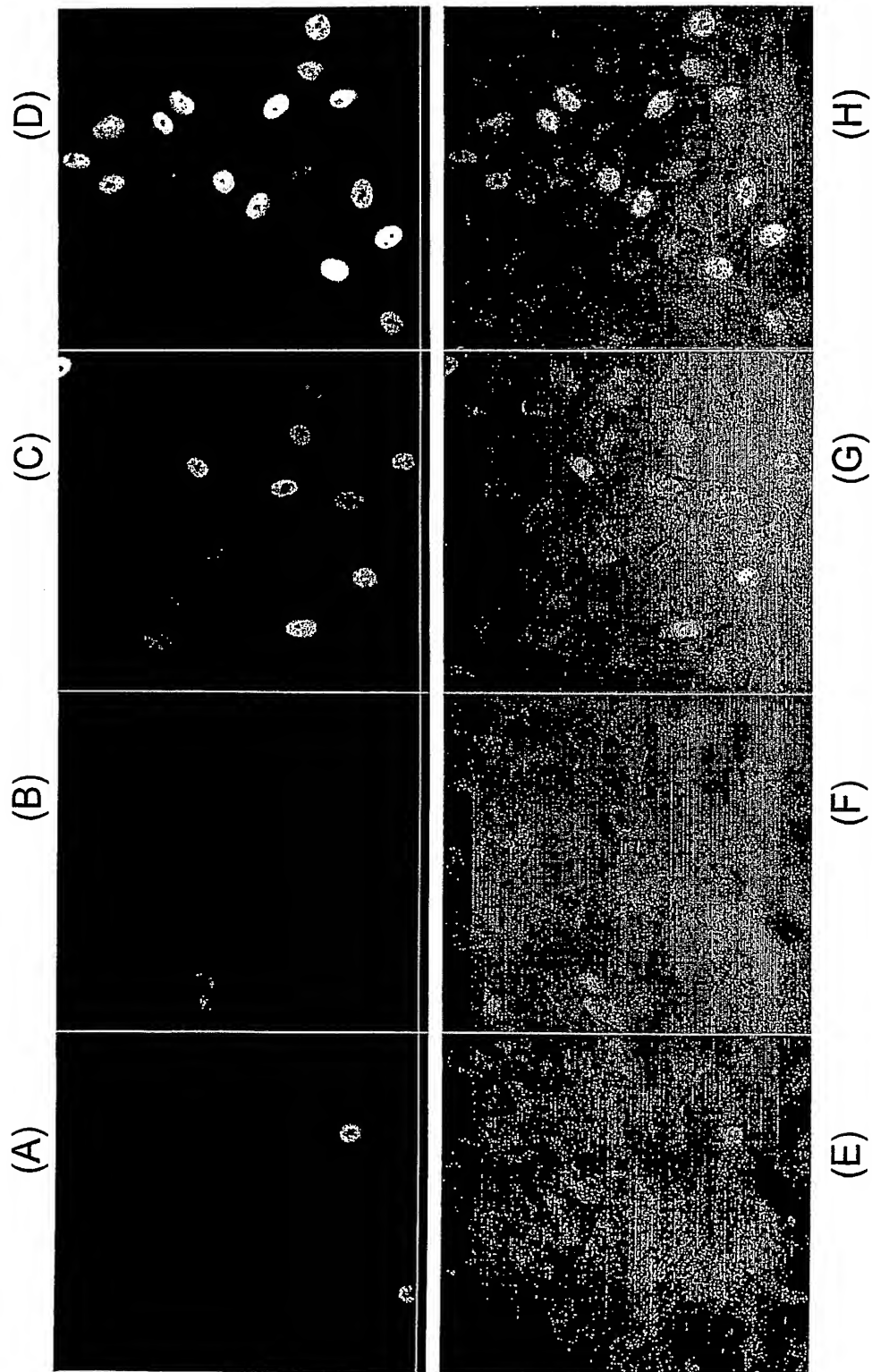


Fig. 21

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TDC, IDC and TIDC assay configurations

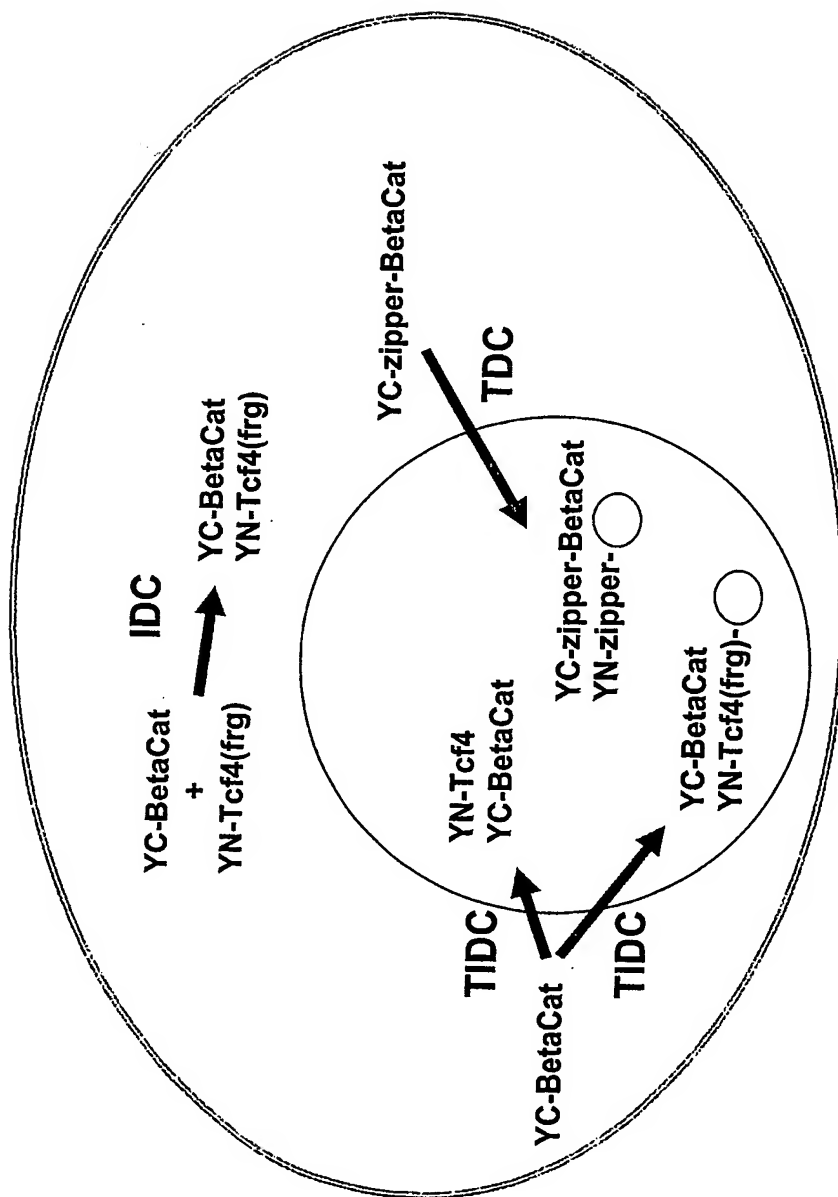
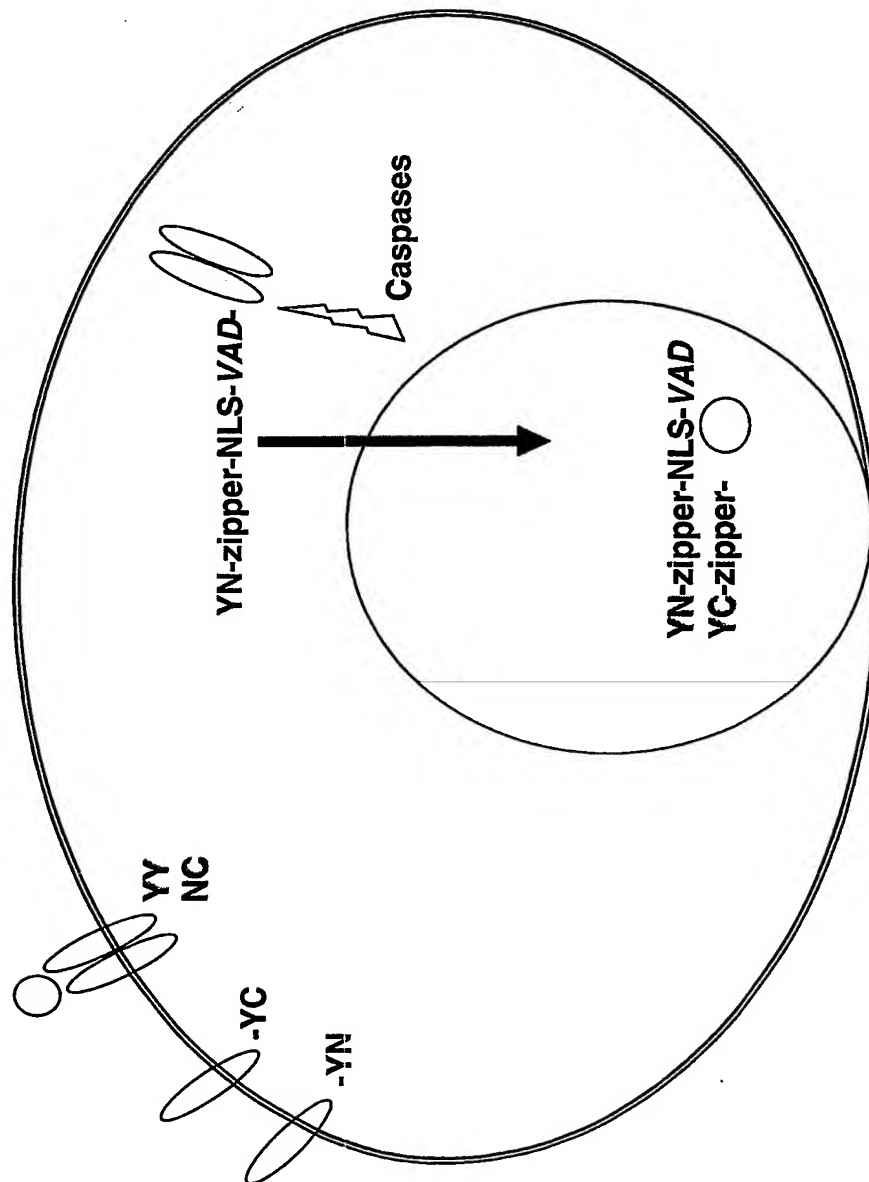


Fig. 22

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Other assay configurations



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